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**From:** Buchberger, Steven (buchbesg) [buchbesg@ucmail.uc.edu]  
**Sent:** 9/4/2018 8:55:31 PM  
**To:** Burkhardt, Jonathan [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=2b0b6b8df43946f39cf56383ba809cbb-Burkhardt,]  
**CC:** Murray, Regan [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=4b06d968152a4cefb83c9864ff5c89c6-Murray, Regan]; Buchberger, Steven (buchbesg) [buchbesg@ucmail.uc.edu]  
**Subject:** RE: Student Interested in Premise Plumbing Modeling?

Hi John,

Thanks for your phone message and follow-up email. I have a PhD student **Deliberative Process / Ex. 5** who is nearly finished. [redacted] hopes to defend [redacted] dissertation this semester, though there is some chance it may spill into spring 2019. [redacted] work on premise plumbing deals with:

1. Estimating peak instantaneous water demands (to better size premise plumbing systems)
2. Simulating energy consumption due to hot water use ( driving EPANET with random demands at individual fixtures)

[redacted] is out of communication for a few days, so I've not had a chance to get [redacted] thoughts on any of this.

Sometime in the near future, I hope you and I can touch base to discuss emerging issues in premise plumbing and prospects for potential collaboration. Maybe lunch on Short Vine?

Regards,  
Steve

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Steven Buchberger, PhD, PE  
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**From:** Burkhardt, Jonathan <Burkhardt.Jonathan@epa.gov>  
**Sent:** Tuesday, September 04, 2018 10:09 AM  
**To:** Buchberger, Steven (buchbesg) <buchbesg@ucmail.uc.edu>  
**Cc:** Murray, Regan <Murray.Regan@epa.gov>  
**Subject:** Student Interested in Premise Plumbing Modeling?

Steve,

I'm emailing today to clarify the voicemail I left and ask if you have or know of any students who might be interested in premise plumbing modeling. We were able to bring Hyounghmin Woo on as an ORISE, but are considering a second student/fellow.

I believe that you may have one current PhD student, but I know that students are also beginning to look for graduate mentors soon. We are currently considering opening the additional ORISE position for the premise plumbing project, but would consider current graduate students, or post-Masters or -Doctoral fellows. For the moment, I'm just asking to see if you know of anyone that might fit this opportunity, but don't need anything else at this time.

If you have any other questions, please feel free to reach out.

Thanks,  
Jon

Jonathan Burkhardt  
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